



## Input/Output Modules



## A5B Series Low-cost Signal Conditioning System

The A5B series provides economical signal conditioning and isolation for inputs to A/D boards and outputs from D/A boards. Plug-in modules feature industry-standard pinouts and fixed I/O ranges (no pot adjustments).

Up to 16 modules plug into a backpanel (multiplexed or non-multiplexed) that is easily mounted in a 19-inch rack. Each A5B module is powered from 5V DC and provides a single channel of isolated analog input or output. Modules are assembled from the highest quality components, encased in thermally conductive hard potting, and subjected to strict testing and quality control.

### Analog input modules

Input modules interface to all types of sensors, then filter, isolate, amplify (some models also linearize), and convert to a high-level analog voltage output.

The voltage output is logic switch controlled, which allows these modules to share a common analog bus without the requirement of external multiplexers. If desired, the output switch can be turned on continuously by simply grounding the read-enable pin.

- DC millivolt/voltage
- DC current
- RTD
- Thermocouple types J, K, T, E, R, S, and B
- Linearized thermocouple
- Strain gauge
- Wide-bandwidth millivolt/voltage

### Analog output modules

Output modules accept a high-level analog voltage signal from a host system, then buffer, isolate, and amplify before providing a process current output to field devices.

- 4 to 20mA DC
- 0 to 20mA DC

### Solid-state plug-in relays

Acromag also offers digital I/O modules for interfacing logic levels in a variety of measurement and control applications.

### Special Features

- A six-pole filter provides superior noise rejection to minimize unwanted signal interference
- Low output ripple with no spikes enables more precise measurements
- Isolation eliminates ground loop errors and protects equipment from harmful transient signals
- Industry-standard format ensures compatibility with existing systems
- Economy price helps meet tight budgets